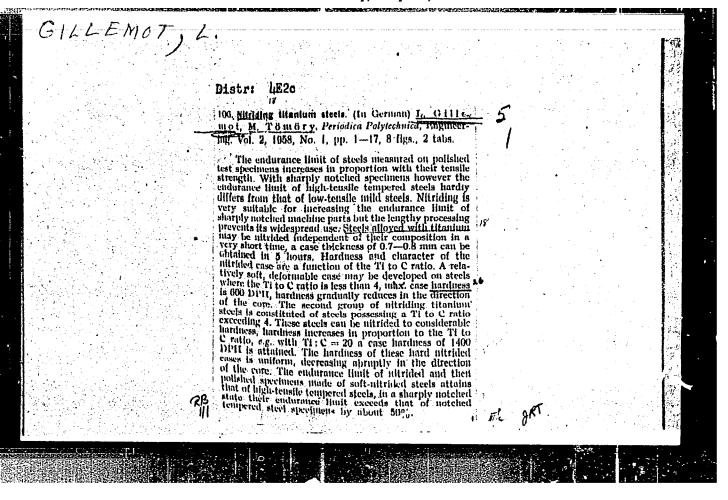


GILLEMOT, L; SINAY, G.

Contraction work as a characteristic of materials. In German. p. 149.

ACTA TECHNICA. (Magyar Tudomanyos Akademia. Budapest, Hungary, Vol. 22, No. 1/2, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959 Uncl.



GILLEMOT, L.

The tole of the testing of materials in up-to-date machine sizing. In German. p. 251.

PERIODICA POLYTECHNIKA. ENGINEERING. (Budapest Muszaki Egyetem.) Budapest, Hungary. Vol. 2, no. 4, 1958.

July Monthly list of East European Accessions (EEAI) LC, vol. 8, no. 2, 1959. Uncl.

GILLEMOT, Laszlo, dr., Kossuth-dijas, egyetemi tanar

Scientific research and the innovation movement. Ujit lap 12 no.19: 7-8 10 0 '60.

1. Magyar Tudomanyos Akademia levelezo tagja.

GILLEMOT, L.

Experiences with a new kind of diploma. work. p. 117.

PERIODICA POLYTECHNICA. ENGINEERING. (Budapesti Muszaki Egyetem, Budapest, Hungary. Vol. 3, no. 2, 1959.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 12, Dec. 1959. Uncl.

HORGOS, Gyula, dr., muszaki tudomanyok kandidatusa (Budapest); GILLEMOT,
Laszlo, dr., ketszeres Kossuth-dijas egyetemi tanar; FREUDENTHALL,
A. M., dr. (USA); KRAINER, E., dr. (Austria); MUCSI, Endre;
DEVENYI, Miklos

An account of the 2d Congress of Testing of Materials. Ujit lap 13 no.15:8 Ag 161.

1. Koho- es Gepipari minissterhelyettes (for Horgos) 2. Columbia University, New York, USA (for Freudenthall) 3. Altalanos Geptervezo Iroda (for Mucsi) 4. Kemenyfemipari Vallalat (for Devenyi)

(Testing)

s/137/62/000/007/043/072 A057/A101

AUTHORS:

Gillemot, L., Rónay, M.

TITLE:

Steels which show a negligible effect of cold deformation upon the

tendency to brittle fracture

PERIODICAL: Referativnyy zhurnal, Metallurgiya,no. 7, 1962, 35, abstract 71201

("Acta techn. Acad. scient. hung.", 1961, 35 - 36, 185 -195, German)

Reasons for the increase of the tendency to brittle fracture of steel, preliminarily treated by cold deformation (CD) were investigated, and recommendations given for the diminution of the destructive effect of CD. Fine-grained steel with 0.75% C and 0.75% Ti was investigated. The tempered steel was deformed by cold drawing with a shrinkage of 10 - 90%, and afterwards were determined H_V , 0.2, C_D , V, the effective stresses and specific work of rupture at tension, and also a_k in dependence of the degree of CD. It is demonstrated that with an increase of the degree of CD to 25% (corresponding to the limit of uniform elongation at tension), H_V , $\sigma_{0.2}$, and σ_b increase (σ_b - to 65 kg/mm², $\sigma_{0.2}$ - to 60 kg/mm²), while Ψ decreases. The change of the mentioned characteristics is

Card 1/2

S/137/62/000/007/043/072 A057/A101

Steels which show a...

connected with the formation of new slip (S) surfaces. Subsequent increase of the degree of CD to 65 - 70% does not change these characteristics, which is explained by the laminar S along the existing S surfaces. A further increase of the degree of CD effects again a rise of H_V , $\mathcal{O}_{0.2}$ and \mathcal{O}_{0} and decrease of \mathcal{V} , which is connected with the stop of laminar S and the formation of a new front of dislocations in connection with the bending of the S planes; S becomes herewith turbulent. Already at a small CD, a_k decreases sharply about twice (to 15 - 20 kgm/cm²), and remains then up to CD 65 - 70% at this level without change. Until the same degree of CD no change occurs in the specific work of deformation. The embrittlement of steel in the CD process is connected with the presence of foreign atoms in the steel which are blocking dislocations. A considerable decrease of the tendency of steel to brittleness can be effected by adding elements to the steel which bind these atoms. There are 21 references.

A. Nikonov

[Abstracter's note: (omplete translation]

Card 2/2

GILLEMOT, L., prof. (Budapest, XI., Bertalan Lajos u.6)

Contributions to the question of rigid fragility of welded joints. Periodica polytechn eng 6 no.2:27-113 62.

1. Lehrstuhl fur Mechanische Technologie, Technische Universitat, und Mitglied, Schriftleitung, "Periodica Polytechnica - Engineering".

GILLEMOT, Laszlo. dr.

A new type of steel usable in cold-working. Gepgyartastechn 3 no.6:201-204, 219 Je'63.

GILLEMOT, Laszlo, prof., dr. (Budapest, XI., Bertalan L.u.7)

A new method for determining the brittleness danger. Periodica polytechn eng 8 no.1:1-14 '64.

1. Lehrstuhl fur Mechanische Technologie, Technische Universitat, Budapest. Submitted September 30, 1963.

GHIRMOR, (master drug FIRE VI, Fred a

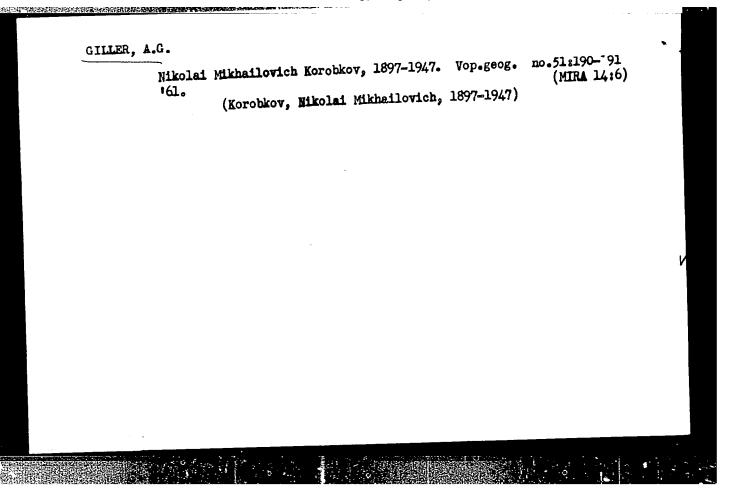
Velocity constant leterminate mail metals and alloys on the rario of statical tensula tests. Now 10 no.3:21.45 (m. 145.)

1. Bulayout Technical University (for Gillemeth. 2, sessarch institute of Potal Industry, Englagest (for Fibelys).

SOURCE CODE: HU/2504/65/050/000/0081/0092 L 31357-66 AT60211112 ACC NRI Gillemot, L.—Zhil'mo, L. (Corresponding member NTA) AUTHOR: ORG: none 4 TITIE: Simplified method for plotting Haigh and/or Smith graphs SOURCE: Academia scientiarum hungaricae. Acta technica, v. 50, 1965, 81-92 TOPIC TAGS: graph theory, stress analysis, linear function ABSTRACT: Affected by an alternating load superimposed onto a static mean stress, fatiguo limit will be the function of the mean stress. The value of the alternating stress the superimposition of which to a given mean stress is still feasible, can be approximated by a cubical parabola. To plot the alternating stress value that can be still added to the static mean stress under a wide variety of conditions, the idea of introducing the actual stress causing fracture was introduced. Thus, it became possible to arrive at a simple linear relation between the static mean stress and the alternating stress, independent of sample shape and test temperature. The data required are only one result of static test and one result of fatigue limit test. Orig. art. has: 9 figures, 9 formulas, and 1 table. [Orig. art. in Eng.] [JPRS] SUB CODE: 12, 20 / SUBM DATE: 16Nov64 / ORIG REF: 001 / OTH REF: 011 Card 1/1 CV

PETROV, L.P., redaktor; GILLENEVA, A.V., redaktor.

[Problems of combustion; collection of translated articles]
Voprosy goreniia. Shornik perevodov statei. Moskva, Izd-vo
inostrannoi lit-ry. Vol. 1. 1953. 291 p. (MLRA 7:1)
inostrannoi lit-ry. Vol. 1. 1953. 291 p. (Combustion)



KOZHEVIN, V.G., nachal'nik; INCZENTSEV.P.P., nachal'nik; BELEVTSEV, T.N., upravlyayushchiy; GARYAKEV, V.V., upravlyayushchiy; GRACHEV, L.I., upralyayushchiy; KONOVALOV, G.I., upravlyayushchiy; GILLER, A.I., nachal'nik; GUEIN, N.I., glavnyy inzhener.

The Soviet miners honor Miners! Day with new industrial victories.

Ugol' 28 no.8:5-15 Ag '53. (MLRA 6:7)

1. Kombinat Kuzbassugol' (for Kozhevin). 2. Kombinat Karagandaugol' (for Inozemtsev). 3. Trest Stalinugol' (for Belevtsev). 4. Trest Kalininugol' (for Grachev). 5. Trest Molotovugol' (for Grachev). 6. Trest Shehekinugol' (for Konovalov). 7. Shakhtoupravlenie No.9/12 tresta Shehekinugol' (for Giller). 8. Shakhta No.34 tresta Krasnoarmeyskugol' (for Gubin). (Coal mines and mining)

GILLER, A.I., laureat Leninskoy premii; GROMOV, N.V., inzh.

Pillar extraction upon depletion of the main drifts. Ugol' 40 no.1:19-21 Ja '65. (MIRA 18:4)

1. Shakhtoupravleniye No.11-12 tresta Shchekunugol'.

EDITOR OF THE PARTY OF THE PART

DYSKINA, T.M.; GILLER, A.S.

Clinical and anatomical characteristics of ileocolic typhoid fever. Zdrav. Tadzh. 7 no. 2:28-32 Mr-Ap '60. (MIRA 13:10)

1. Iz kafedry infektsionnykh bolezney (zav. - dotsent D.M. Khashimov) Stalinabadskogo medinstituta im. Abuali ibni Sino i Stalinabadskoy gorodskoy infektsionnoy bolinitsy.

(TYPHOID FEVER)

SHIRYAYEV, G.A., inzh.; GILLER, E.S., inzh.

Standardization of main structures in coal mining entercrises.
Shakht. stroi. no.12:7-10 D '57. (MIRA 11:1)

1.Institut TSentrogiproshakhtostroy.
(Mine buildings)

OSTROVSKIY, M.Ye.; GILLER, E.S.; CHEREPOV, I.A.; MELIKHOVA, A.A.

Design for a new type of a chemical plant. Prom. stroi. 41 no.7:13-18 J1 '64. (MIRA 17:8)

GILLER, F.; KRAVTSOVA, A.

Quality of the pancreas. Mias. ind. SSSR 34 no.4:56-58 '63. (MIRA 16:10)
1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti.

ROZHKOV, F.; GILLER, I.

Make available to the masses the practices of those in front.

Metallurg 8 no.12:30-31 D '63. (MIRA 17:4)

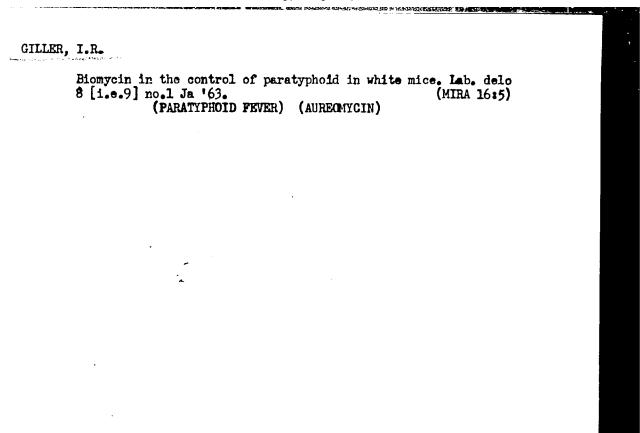
1. Predsedatel' profsoyuznogo komiteta Magnitogorskogo metallurgicheskogo kombinata (for Rozhkov). 2. Nachal'nik normativnoissledovatel'skoy laboratorii Magnitogorskogo metallurgicheskogo kombinata (for Giller).

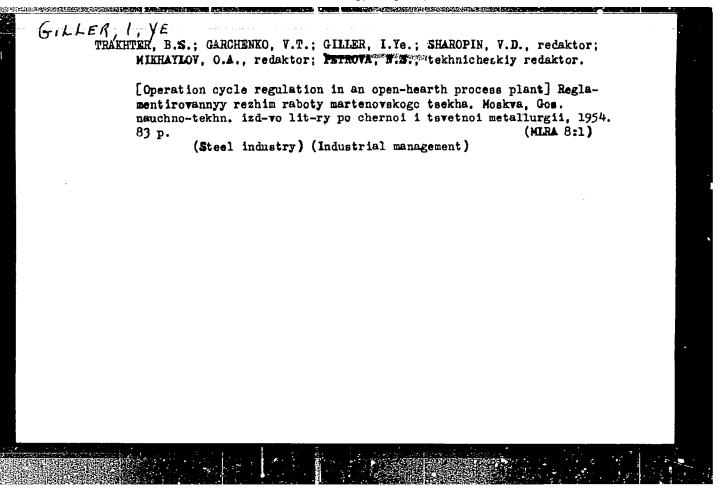
GILLER, I.R.

Utilization of the ANZh-2 apparatus for disinfection. Veterinariia 33 no.5:68 My 156. (KLRA 9:8)

1. Starshiy veterinaryy vrach Vereshchaginskoy mashino-traktornoy stantsii, Molotovskoy oblasti.
(Disinfection and disinfectants)

(Spraying and dusting equipment)





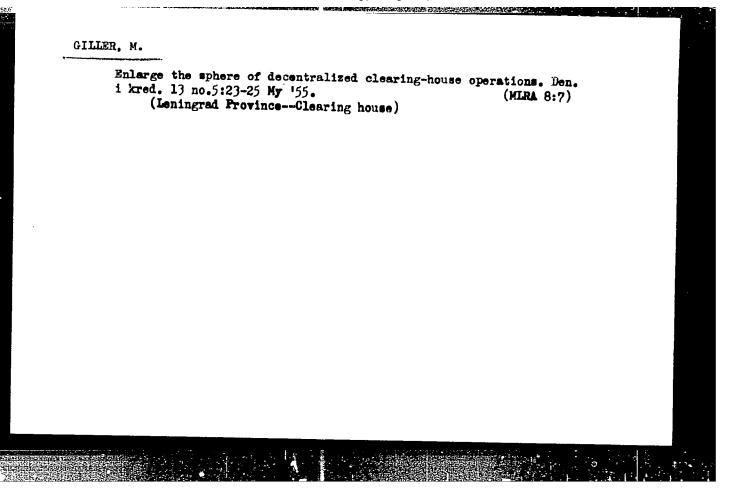
Increasing labor productivity and reducing production costs at the Magnitogorsk Metallurgical Plant. Stal' 15 no.1:70-74 Ja '55.

1. Magnitogorskiy metallurgicheskiy kombinat.

(Magnitogorsk--Metallurgical plants)

GILLER, M., LUNTS, V.

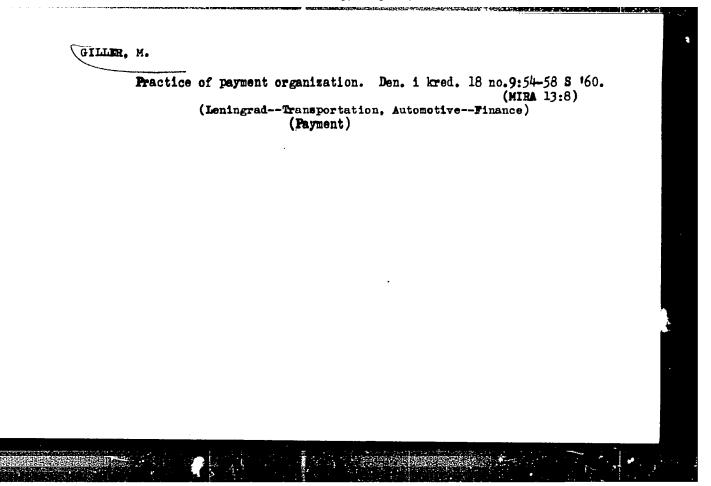
Greater attention to income and expernditure balance of enterprise. Den. 1 k
kred. 11, No 6, 1952.

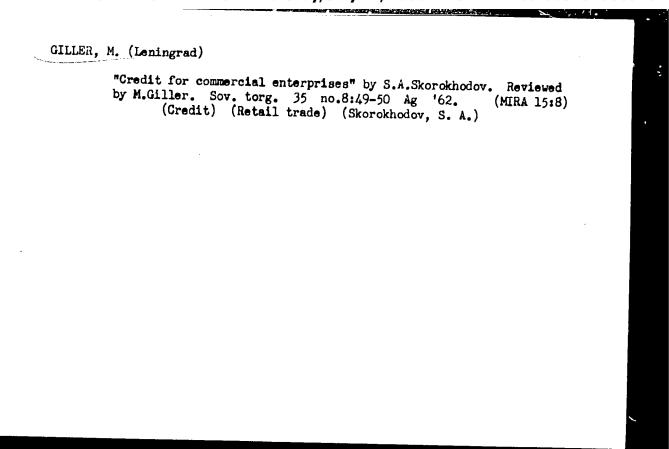


PECHENIK, M.; TARASOV, M.; RAVICH, A.; GILLER, M.; EYZENERAUN, R.;
PAYLOVA, D.

Clearing payments and the issue of credit on special loan
accounts. Den. i kred, 16 no.4:48-59 Ap '58. (MIRA 11:5)

(Clearinghouse)





GILLER, M.

Gredit should be secured. Den. i kred. 21 no.7:29-30 Jl '63.

(MIRA 16:8)

1. Nachal'nik planovo-ekonomicheskogo otdela Leningradskoy
oblastnoy kontory Gosbanka.

(Leningrad Province—Credit)

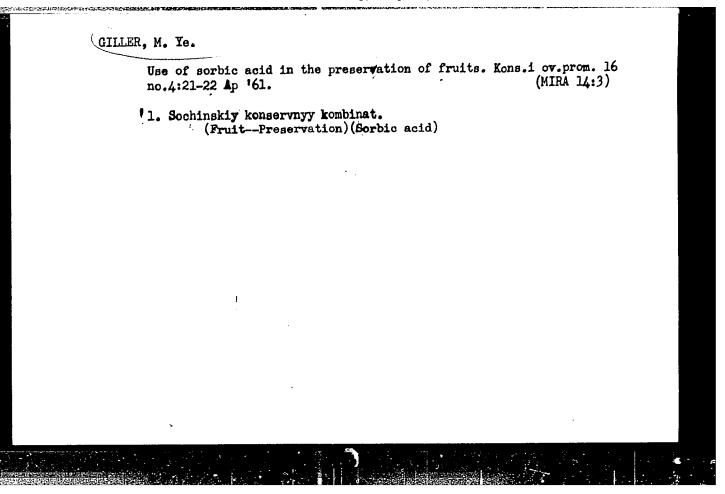
Processing the subtropical persimmon. Kons. i ov. prem. 14 no.8:
28-30 Ag '59. (MIRA 12:9)

1.Sechinskiy kunservnyy kombinat imeni Lenina.
(Persimmon)

GILLER, M. Ye.

Experience of the V.I. Lenin Sochi Canning Combine in increasing the variety of products and combining various lines of production. Kons.i ov.prom. 15 no.4:41-42 Ap 60. (MIRA 13:6)

1. Sochinskiy konservnyy kombinat imeni V.I. Lenina. (Sochi--Canning industry--Equipment and supplies)



ROZENFEL'D, I.L.; RUBINSHTEYN, F.I.; YAKUBOVICH, S.V.; PERSIANTSEVA, V.P.; Prinimali uchastiye: GILLER, R.S.; KURSKAYA, A.G.

Studying chrome acid guanidine as a corrosion inhibitor for oil paints. Lakokras.mat.i ikh prin. no.3:15-21 '62. (MIRA 15:7)

(Protective coatings)

(Guanidine)

VOL'FKOVICH, S.I.; GILLER, M.Ye.; GOL'DERBITER, M.S.; IONASS, A.A.;

KILOCHITEKIY, I.M.; REMEN, R.Ye.

Production of fodder and defluorinated fertilizer phosphate.

Khim. prom. 41 no.1:18-22 Ja '65.

(MIRA 18:3)

GILLER, S. A. - "On the possible cause of tactericidal activity of certain organic compounds, in particular a derivative furan series," Izvestiya Akad mauk Latv. compounds, No. 12, p. 15-44, - Annotation in Latvian - Bibliog: 28 items
SSR, 1948, No. 12, p. 15-44, - Annotation in Latvian - Bibliog: 15, 1949.)

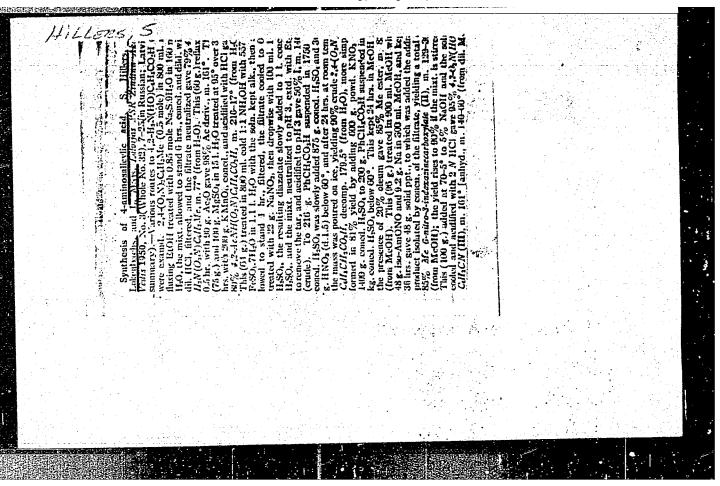
SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

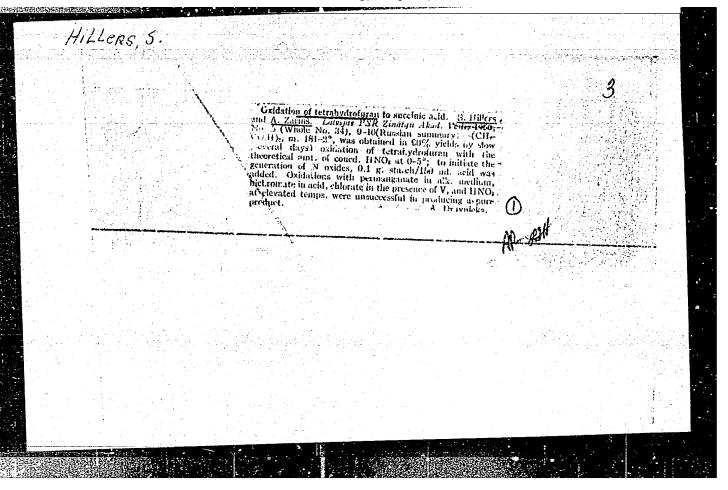
HILLERS, S.

Chem abo V48 1-25-54 Electronic Phenomena Ultraviolet absorbion spectra of 2-nitro-1,3-indandione.

(3. Vanage, 1. Biduss, and S. Hillers. Lateijas PSR Zinātnu Akad. Visits 1949, No. 8(Whole No. 25), 21-30(Russian summary, 39-40).—Absorption spectra of 2-nitro-1,3-indandione (1) and its salts were detd. in many solvents. In highly dil. aq. soln., the nitroindandione lon is the absorbing agent, and can be represented as a resonance hybrid of 3 out of a no. of possible valence structures. In solvents of low dielec. consts. such as ether and dioxane, in which the energy of shifting of the electrons is high, the enol form slowly transfers into the diketo form; the rate of reaction is proportional to the dielec. const. In 100% II-SO, the absorption is by a mol. form of I, characterized by a superposition of 3 other electronic structures; this form is an intermediate between the diketo and the enol forms. The spectrum of the Et ester of the indandionecarboxylic acid had analogous form, but with the absorption max. shifted by structural considerations. Salts of I became colored on storage, and the spectra indicated that this is caused by intramol. shifts. A decrease in the ionization potential of the feation facilitates the formation of structures which absorb in the visible. The high ionization potential of Ilg prevents formation of an ionic link and the salt of IIg with I remains colorless. Arguments in favor of H bonding in I are given.

A Jeefst



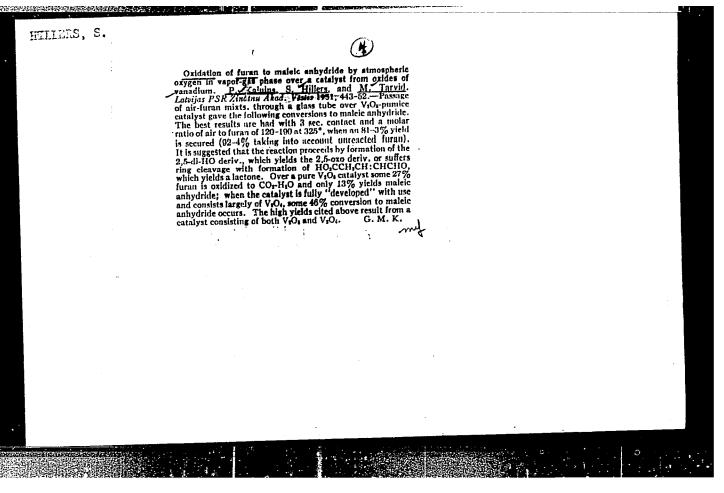


"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-I

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- 1. HILLERS, S.
- 2. SSSR (600)
- 4. Bitrofuran
- Activities of the Academy of Sciences of the Latvian S. S. R. on the industrial application and medical acceptance of new drugs. Latv. PSR Zin. Akad. Vestis No. 12, 1950

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.



GILLERS, &.

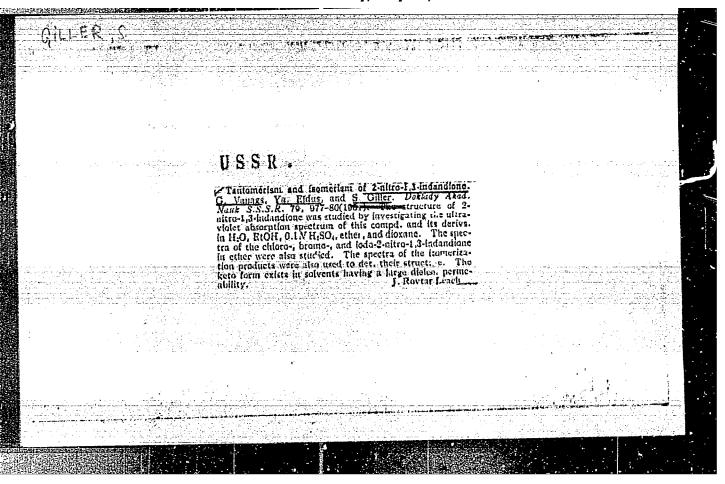
- 1. HILLERS, S.; EYDUSS, J.
- 2. USSR 600
- 4. Nitrofuran
- 7. Ultraviolet absorption spectra of some nitrofurans, Latv. PSR Zin. Akad. Vestis, No. 8, 1951.

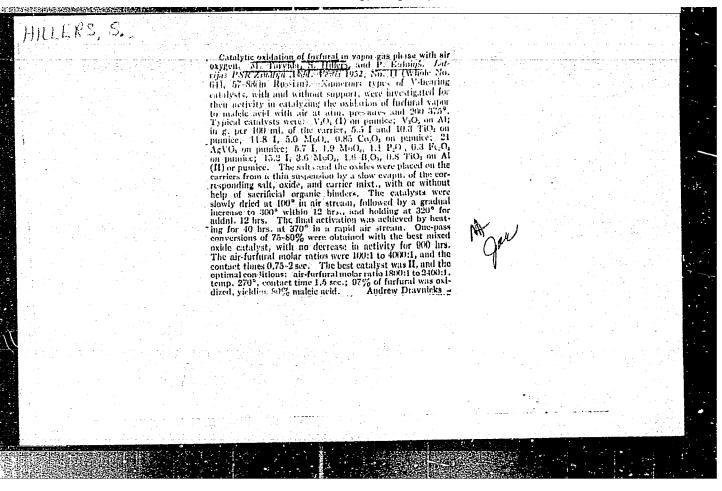
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

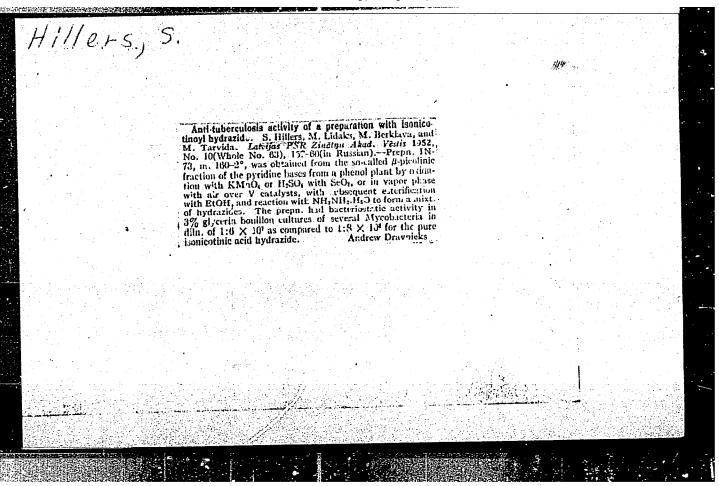
GILLERS, S.

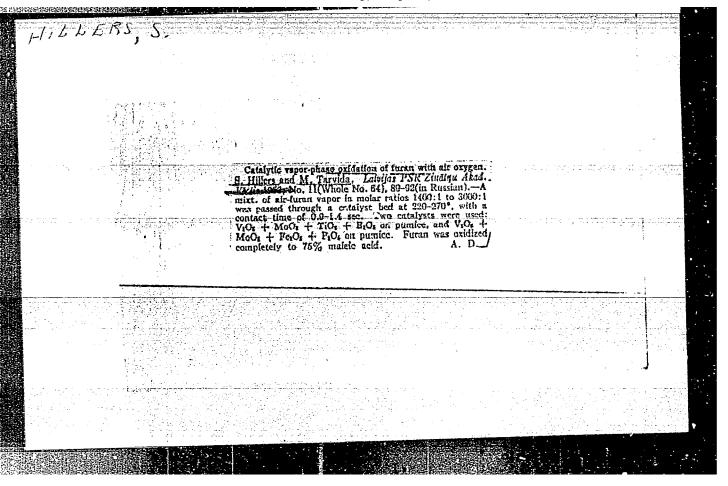
- 1. HILLERS, S.; BERZINA, A.
- 2. USSR 600
- 4. Nitrofuran
- 7. Crystalline modifications of 5-nitro-2-furfurylidene-aminoguanidine sulfate, Latv. PSR Zin. Akad. Vestis, No. 11, 1951.

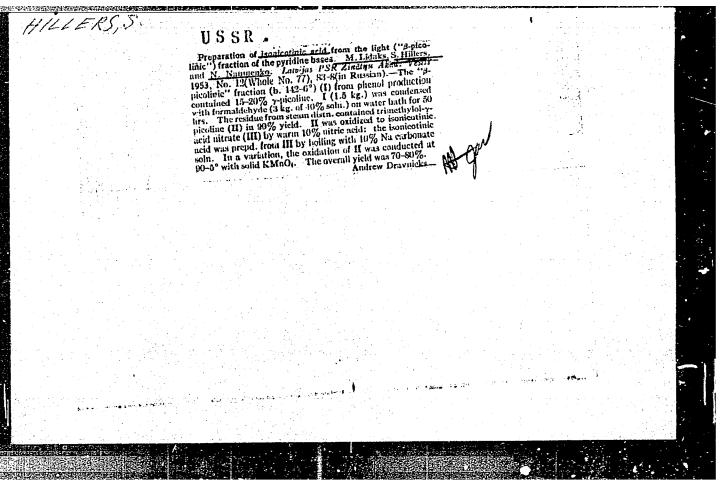
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

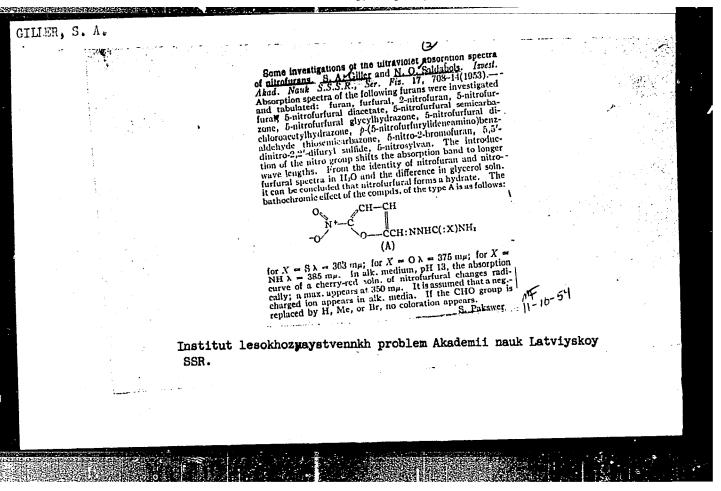












GILLER, S. A.

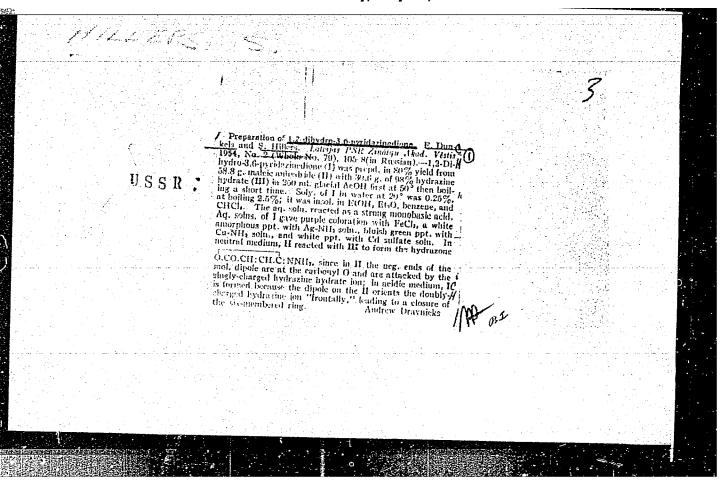
Dissertation: "Investigation of Methods of Synthesis. Physicochemical Properties, and Interrelation Between the Structure and Biological Activity of Some Substituted Derivatives of 5-Nitrofurfurilidenimines." Cand Chem Sci, Inst of Forestry Problems, Acad Sci Latvian SSR, Riga, 1953. (Referativnyy Zhurnal—Khimiya, Moscow, No 12, Jun 54)

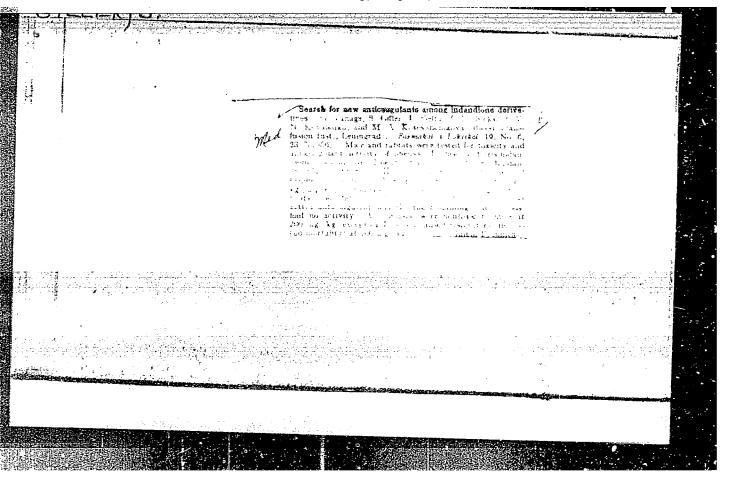
SO: SUM 318, 23 Dec 1954

GILLER, S. A.

GHLER, S. A. -- "Study of the Methods of Synthesis, Physicochemical Characteristics, and Interrelationship Between the Structure and Biological Action of Certain Substituted 5-Nitrofurfuryldenimines." Acad Sci Latvian SSR, Inst of Forestry Problems 1954 (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Izvestiva Ak. Nauk Latvivskov SSR. No. 9, Sept., 1955





Giller, S. A

AUTHOR:

YANUSHKOVSKIY, V. YA., GILLER, S.A.

The Conference at Riga on the Use of Rulio Isotopes. (Konferentsiya v Rige po primeneniyu radioizotopov, Russian).

The Conference at Riga on the Use of Rulio Isotopes. (Konferentsiya v Rige po primeneniyu radioizotopov, Russian).

PERIODICAL:

ABSTRACT:

rentsiya v Rige po primenentyu radioizotopov, massiania radioizotopov, massiania Atomnaia Energiia, 1957, Vol 2, Nr 3, pp 285 - 286 (U.S.S.R.)
Received: 4 / 1957
In December 1956 a scientific conference of the Academy of Science of the Latvian S.S.R. was held at Riga, dealing with the use of radioactive isotopes in technology, biology, and medicine, in which also scientists from Moscow, Leningrad, Tallin (Reval), Wilna, and other cities participated. The president of the Latvian Academy of Science reported that the institutes of this Academy carried out a number of investigations dealing with this subject within recent years. It is the task of this conference to demonstrate the principles on which these investigations were based.

Individual lectures dealt among others with the following subjects: The main trends in the application of radioactive isotopes in devices for automatic control, the application of radioactive isotopes within the field of medicine and biology, the application of gas discharge counters in contactless radioactive relays, radioactive marking of steele under industrial conditions in the Leningrad Steel Rolling Mill "MOLOTOV", the use of a radioactive donor in the device for automatic transition from one tele-

Card 1/3

PA - 2315

The Conference at Riga on the Use of Radio Isotopes.

kinematic projector to another in the telecenter of Riga. the radioactive indicators of the level of liquids in covered containers, a radioactive control device for the filling of nontransparent containers in assembly line production, the practical application of radioactive, regulating- and signalling devices worked out in the Physical Institute of the Academy of Science of the Latvian S.S.R. (in cooperation with the factory "BEF"), warious wiring circuits for radioactive relays in gas discharge counters, the experimental application of gamma rays for the radioscopic investigation of a thin metal, the application of scintillation counters in gamma-defectoscopy, the determination of the thickness of steel from the scattered gamma radiation, the attenuation of a parallel gamma bundle in layers of matter, the qualitative analysis of a mixture of radioactive isotopes from the half value periods, radioactive marked bacteria, the study of the penetration of pentode and other substances into the lignin by means of radiocarbon, the investigation of the dynamics of the shifting of chemical stimulators in the trunks of fir trees with radioactive phosphorus, the exchange of calcium in the organism of chickens (?), etc. In a resolution also work with stable isotopes and mass spectrographs was described as necessary.

Card 2/3

HILLERS, S.

GETERAL -

PERIODICALS: VESTIS No.1, 1968

WILLERS, S. Determination of nitrofuran solubility in vator by the help of polyarography. In Russian, 113 p.

Monthly list of East European Accessions (EFAT) 'C, Vol. °, No. 2, February 1959, Unclass.

GILLER, S. A.

"Informed the assembly of the intention of Latvia (latviya) scientists to carry out research on the use of natural polymers"

report presented at the cession of the Presidium of the Council for Coordination of Scientific Work of the Academies of Sciences of Union Republics and Branches (on Development of Researches on Highly Molecular Compounds) 21 June 1958. (Vest. Ak Mank SSSR, 1958, No. 9, pp. 101-104)

Corresponding Member, AS Latviyskaya SSR

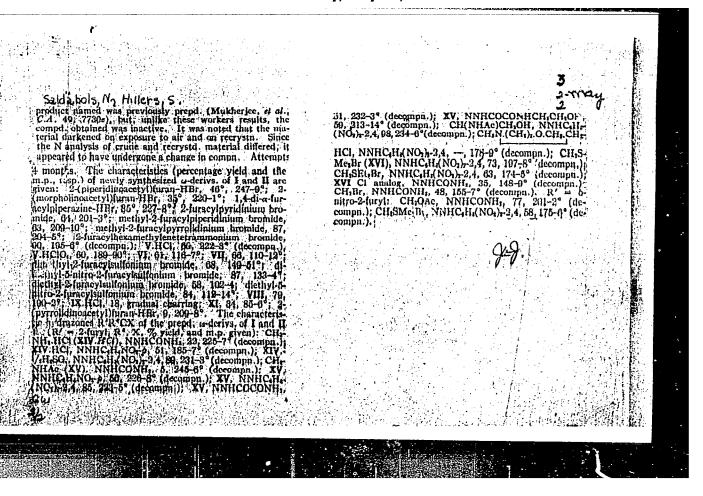
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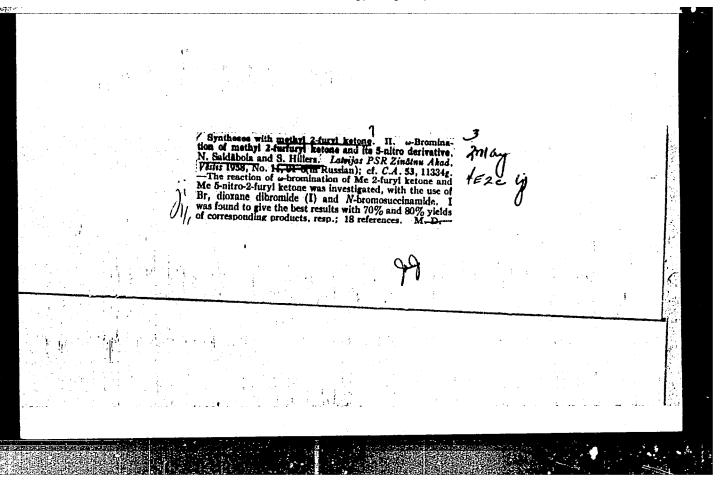
Synthesis in the series of 2-acciviluran. N. Saldabols and S. Hillers: Vebrasy Ispol sown. Pentosansoderchath-chego. 3790, 1 rudy Vissoyus. Socishchaniya, Riga 1955, 370-91 (Pub. 1958), The little known a derivs, of 2-accivilurance and the social series of the cheg. 3776. Triedy Viesovis. Speethchaniya, Riga 1955, 376-91(Pub. 1958). The little-known a derivs, of 2-acetyl-furan (I), e.g., the bromo, amino, ammonium, sulfoulum, and lividroly derivs., and also their 5-nitro derivs. were studied. The nitration of I to 5-nitro-2-acetylfuran (II) was carried out accurding to H. (Dissentation, Riga, 1953) except that the amf, of anhyd. HNOs used was lowered to 1-1.5 inoles for I mole I, and 7-8% coned. HSO, was added; the nitration was carried out at lower temp, during 1-1.5 hrs. The process of deacetylation of the intermediary product and the sepa. of II was simplified. Under the above conditions no I was observed as a side product as is the case in the Rinkes method (C.A. 26, 2455). Expts. showed that decreasing to I mole the anst. of HNOs for I mole I increased the yield of II to 33%. The highest yield of II (61%) was observed when nitrating with a mixt, of anhyd. HNOs and 7-8% HsSO, from 14 to -12° and 1:1.5:11. HNOs Argo. The promination of I and II with N-bromostice in Index was unsuccessful even in the presence of Sor BzO. 2-Bromoscetylfuran (III) with secondary cyclic minnes gave the HCl and HBr salts of 2-(piperidinoacetyl)furan and 2-(morpholinoacetyl)furan, and the HBr salt of 2-(pyrrelidinoacetyl)furan and 1.4-di-a-furacylpiperuzine were obtained. To obtain the highest yield of the corresponding amina ketones in Et₁O, 2 moles of the amine had to be used, whereas in an alc medium, the reaction could be carried out with equimolar antis, and the amino ketones in this case pptd. directly in the form dium, the reaction could be carried out with equimolar amts. and the amino ketones in this case pptd. directly in the form of crystals of HBr salts. The dialbylaminomethyl 2-furyl ketone obtained in Et.O as a base can be pptd. (after filtration of the sait of the initial amine) in the form of the HCl sait by passing dry HCl through the Et₁O solu. The reaction of III with tertiary amines, e.g. pyridine, 1-methyl-

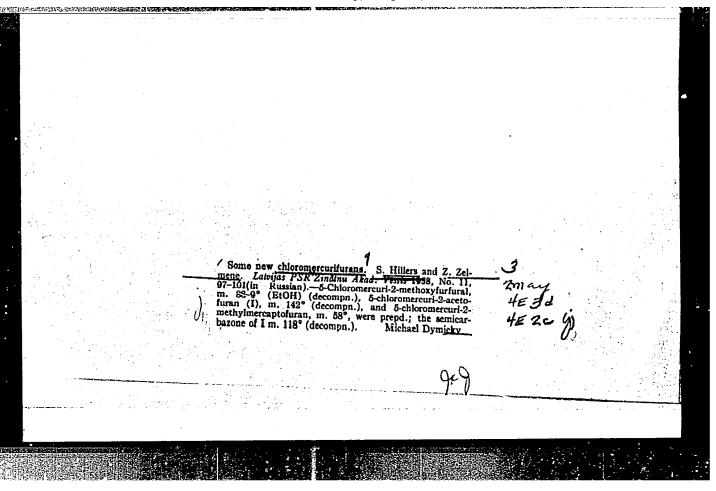
miller

piperuline, and 1-methylpyrrolidine was investigated for the list time. Similarly to phenneyl brounde, III reacted with equimolar amts, of the above-mentioned tertiary amines in abs. Et2O to give high yields of the corresponding ammonium abs. Et.O to give high yields of the corresponding ammonium salts. III reacted analogously with hexamethylenetetramine in various org. solvents, e.g. in ale., CHCl., PhCl, and CCl., at room temp., to give a high yield of 2-furacyl hexamethylenetetrammonium (IV) salt (89% in CHCl.). The splitting of IV bromide by HCl in an ale. medium yielded 60% 2-aminoacetylfuran-HCl (V.HCl), which treated with HClO, yielded V.HClO. The acetylation of V.HCl by an emulsion of Ac.O in H₂O at 0° with the addn. of NaHCO, yielded 61% 2-acetamidoacetylfuran (VI). The hydroxymethylation of VI with 36% a. HCHO at 35° in the presence of NaHCO, yielded 66% [1-(a-furyl)-2-acetamido-3-hydroxy-1-propanone (VII). The 5-nitro-deriv. of III with hexamethylenetetramine in CHCl, yielded 79% 5-nitro-2-furacylhexamethylenet-trammonium bromide (VIII). VIII treated with HCl in an alc. solu, yielded 18% 5-nitro-2-amlaoacetylfuran-HCl (IX.HCl), which was sepd. from the mixt. by pphn. with acetone after filtration of the ammonium salts. Contrary to V.HCl, IX.HCl was quite hygroscopic and unstable. Owing to a high sensitivity towards alkan agents, 5-nitro-2-bromoacetylfuran (X) did not form NH, salts with secondary and tertiary amines. AcONa in glacial AcOH and X yielded 5-nitro-2-acetoh, broxyacetylfuran (XI). A simpler method of substitution of Br in X by the hydroxy, group by the action of Na formers in McCoI, on heating, did not give pos. results. In an analor us. hanner 60% 2-hydroxyacetylfuran was obtained f, om III, and only 12% by the action of HNO, on V.HCl. The hydrazone derivs. of salts. III reacted analogously with hexamethylenetetra-

Distr: LB2c(j)/LB3d

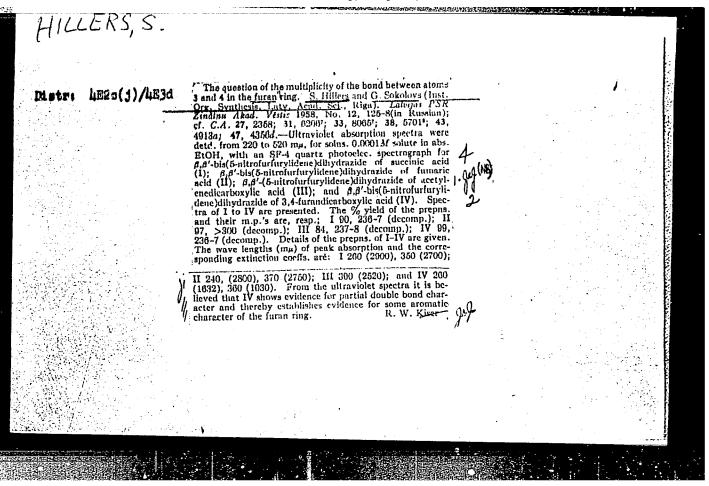






"APPROVED FOR RELEASE: Thursday, July 27, 2000

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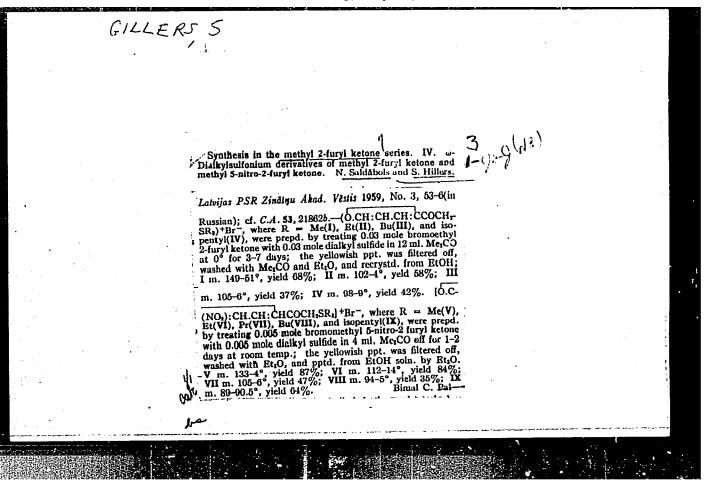
HILLERS, S.; Kurgan, B.; Saldabola, N.

A method for the preparation of 5 nitropyromucic acid. In Russian. p. 49.

IATVIIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 3, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2,

Feb. 1960 Uncl.

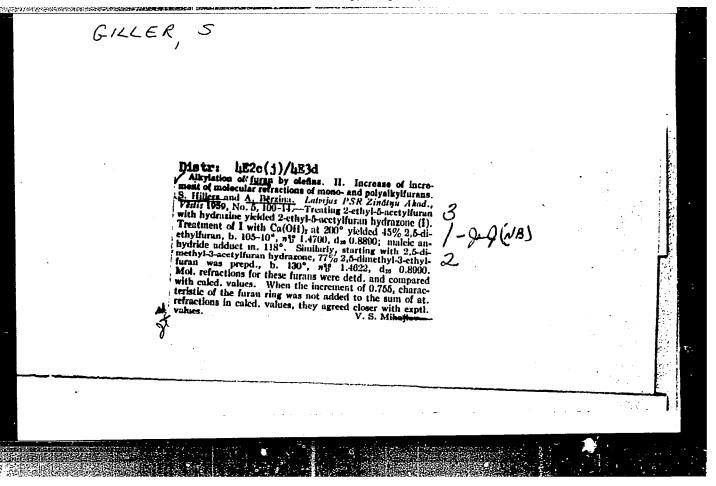


HILLERS, S.; Stradins, J.; Ratenbergs, N.

Dynamics of the secretion of some new nitrofuran preparation series from the organism; task and study method. In Russian. p. 107

LATVIIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 3, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol.9, no. 2, Feb. 1960 Uncl.



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STRADYN' Ya. [Stradins, J.] (Riga); GILLER, S. [Hillers, S. (Riga); DZENE, A. (Riga)

Polarographic reduction of some derivatives of 5-nitrofuran, possessing chemotherapeutic activity. Vestis Latv ak no.12:71-78

'59. (EEAI 9:11)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza. (Polarograph and polarography)

(Nitrofuran)

5.4.600

67264

5 (3)

AUTHORS:

Stradin', Ya., Giller, S., Academician

SOV/20-129-4-28/68

AS LatvSSR, Yur yev, Yu.

TITLE:

Polarographic Reduction of 2-Nitrofuran Derivatives and

2-Nitroselenophene Derivatives

PERIODICAL:

Doklady Akademii nauk S3SR, 1959, Vol 129, Nr 4, pp 816 - 819

(USSR)

ABSTRACT:

The authors ascertained the influence exercised by the substituents in the 5th position of the furan- and selenophene cycle on the polarographic reduction process of the nitro groups in the second position. Thus, they completed the data of publications by new examples. The derivatives mentioned in the title may now be compared to the nitro derivatives of the aromatic series. Table 1 gives the derivatives I-XXV investigated in the present paper under vigorous conditions. It was found that the mechanism of polarographic reduction of the mentioned derivatives is the same as that of nitrobenzene- (Ref 7) and of 2-nitrothiophene (Ref 11) derivatives. Also the semiwave potentials E. of the nitro derivatives of the mentioned series are closely related. The comparison of these series leads to the conclusion that the nitro group of 2-nitrofuran derivatives is the most easily to be

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Polarographic Reduction of 2-Mitrofuran Derivatives and 50V/20-129-4-28/68 2-Mitroselenophene Derivatives

reduced. This is more difficult in the case of 2-nitrothiopheneand 2-nitroselenophene (which requires by 20-30 mv more) and still more difficult for nitrobenzene derivatives (by 40 mv more). From the investigation of this series of derivatives the influence exercised by the substituents on the polarographic reduction of the nitro group may be quantitatively estimated on the basis of the E1/2 displacement of the substituted compound compared to the non-substituted one. In the series of nitrobenzene and nitrothiophene this displacement may be expressed by the Hammet equation. It may be concluded from the data given by the authors that this holds also for the derivatives mentioned in the title if the same values of o are assumed for the substituents in the heterocycles as apply for the aromatic series, and if the numerical values of $\Delta E_{1/2}$ and f are compared for an equal pH value in a weakly acid medium. The behavior of the 2,5-substituted derivatives of the 5-membered heterocycles corresponds to the behavior of the p-substitutes of the aromatic series. The behavior of the former however strongly differs from that of the m-substitutes. This agrees on the whole with the rules of

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67264

Polarographic Reduction of 2-Nitrofuran Derivatives and SOV/20-129-4-28/68 2-Nitroselenophene Derivatives

orientation found in the study of the reactivity of the substituted furans. However, further polarographic measurements are necessary in this case. The influence exercised by the substituents over an additional group -CH=CH- in the side chain is in general not high. The reduction of 5-nitro furfurol proceeds in a characteristic manner (Scheme). There are 1 table and 16 references. 9 of which are Soviet.

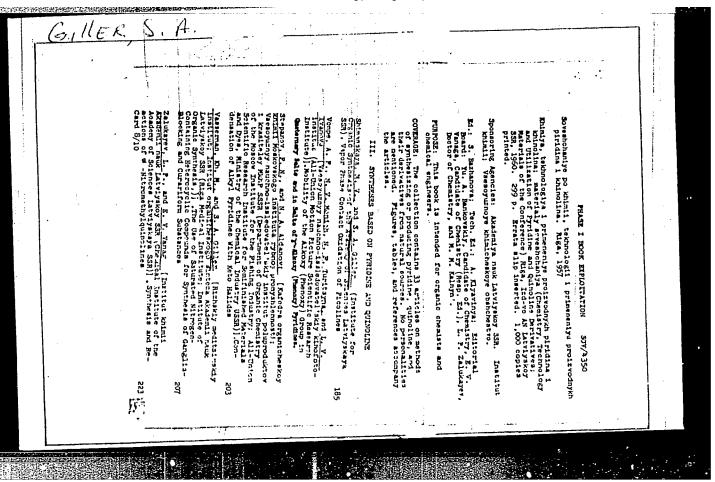
ASSOCIATION: Institut organicheskogo sinteza Akademii nauk LatvSSR (Institute of Organic Synthesis of the Academy of Sciences of the Latviyskaya SSR). Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: July 21, 1959

Card 3/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051671



SHIMANSKAYA, M. (Riga); GILLER, S. [Hillers, S.] (Riga)

Effect on the activity of the content of vanadous catalysts in the process of vapor-phase furfurole oxidation. Vestis Latv ak no.9: 93-102 '60. (REAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Catalysts) (Vanadium) (Furaldehyde)

BLYUGER, A.F.; GILLER, S.A.; SHENIGSON, B.S.

Studies on the antilamblial effect of nitrofurans and first results of their use in the treatment of human lambliasis. Med. paraz. i paraz.bol. 29 no.68646-647 160. (MIRA 14:2)

1. Iz Instituta organicheskogo sinteza Akademii nauk Latviyskoy SSR, Rizhskogo meditsinskogo instituta i Respublikanskoy Sanitarno-epidemiologicheskoy stantsii Latviyskoy SSR.

(GIARDIASIS) (FURAN)

SHIMANSKAYA, Mariya Vladislavovna; SLAVINSKAYA, Valentina Aleksandrovna; GILLER, S.A., akademik, red.; DYMARSKAYA, O., red.; LEMBERGA, A., tekhn. red.

[Analysis of furfurole] Analiticheskoe opredelenie furfurola. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1961. 182 p. (MIRA 14:11)

l. Akademiya nauk Latviyskoy Sotsialisticheskoy Respubliki (for Giller) (Furaldehyde)

LUKEVITS, E. [Lukevics, E.](Riga); GILLER, S. [Hillers, S.](Riga)

Reaction of triethylsilane with mercury salts, Vestis Latv ak no.4:95-98 '61.

(REAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Triethylsilane) (Mercury)

5 3700 2209

24115 S/197/61/000/004/003/004 B101/B229

AUTHORS:

Lukevits, E., Giller, S.

TITLE:

Syntheses in the series of furan-containing organization compounds. Information I. Reduction of furyl-, phenyl-, and thienyl mercury chloride by means of triethyl silane

PERIODICAL:

Izvestiya Akademii nauk Latviyskoy SSR, no. 4, 1961, 99-102

TEXT: The purpose of the present work was to investigate the interaction between organomercury furan derivatives and silanes to obtain furyl silanes. The tests showed that furyl mercury chloride neither reacts with SiF 4, SiCl, in benzene, nor with (C. H.) siCl distributed in

SiCl₄ in benzene, nor with $(c_2H_5)_3$ SiCl dissolved in o-xylene. A reaction was not achieved, neither after 24 hr nor at 145°C. If, however, triethyl silane was used instead of halogen silane, furyl mercury chloride was reduced with separation of mercury. Triethyl silane showed the same reducing effect with thienyl mercury chloride and phenyl mercury chloride. The reaction is accelerated if it is achieved in a solvent (dioxane, alcohol, or pyridine). In anhydrous pyridine the rate of reduction increases in the Card 1/4

X

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Syntheses in the series ...

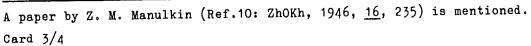
order: phenyl mercury chloride < furyl mercury chloride < thienyl mercury chloride. If a reaction is achieved without a solvent, or in dioxane, triethyl silane changes to triethyl-chlorosilane. If ethanol is used as solvent, triethyl silane changes to triethyl ethoxy silane. In pyridine a complex is formed from triethyl chlorosilane and pyridine. After decomposition of the reaction mixture by means of water, and extraction by means of ether, the ether extract contains only triethyl silanol and the corresponding hydrocarbon: benzene (identified as m-dinitro benzene), thiophene (identified as thienyl mercury chloride), or furan (proved by qualitative reactions). From this the following reaction may be assumed: $RHgC1 + (C_2H_5)_3SiH \longrightarrow RH + Hg + (C_2H_5)_3SiCl; R = furyl-, thieryl-, or$ phenyl radical. Difuryl mercury, dissolved in pyridine, could not be reduced by triethyl silane. For the reaction of triethyl silane with phenyl mercury chloride, it is indicated: to 15.7 g phenyl mercury chloride, 4 g pyridine and 5.8 g triethyl silane were added, the solution was boiled for 4hr. After cooling off, 9.6 g Hg (=96%) were filtered off. The fraction distilled off at 80-81°C was nitrified. By crystallization from ethanol the m-dinitro benzene was obtained. At 146 - 148 $^{\circ}$ C triethyl chlorosilane distilled over. If water was added to the solution filtered off from Hg, Card 2/4

24115 s/197/61/000/004/003/004 B101/B229

Syntheses in the series ...

extracted with ether, the triethyl silanol distilled over from the extract at 153 - 154°C. The reaction with other mercury compounds was carried out in the same way. The results are shown in Table 2:

Hg compounds,	mole	(C ₂ H ₅) ₃ SiH, mole	solvents	duration of reaction, hr	obtained Hg, %
Phenyl mercury chloride ditto	0.05	0.05	without dioxane	55 36	12.6 80
furyl mercury chloride	0.05	0.05	ethanol	4	98
phenyl mercury chloride	0.1	0.1	pyridine	2	78.4
furyl mercury chloride	0.1	0.1	pyridine	2	86.25
thienyl mercury chloride	0.1	0.1	pyridine	. 2	98



Syntheses in the series ...

S/197/61/000/004/003/004 B101/B229

There are 2 tables and 14 references: 5 Soviet-bloc and 9 non-Soviet-bloc. The most important reference to English-language publication reads as follows: R. Benkeser, D. Hoke, R. Hickner, J. Am. Chem. Soc., 1958, 80,

ASSOCIATION: Institut organicheskogo sinteza AN Latv. SSR (Institute of

Organic Synthesis, AS Latviyskaya SSR)

SUBMITTED:

January 13, 1961

Card 4/4

VENTER, K.[Venters, R.]; GILLER, S.[Hillers, S.]; LAZDYN'SH, A.[Lezdins, A.]

Synthesis in the series of 5-nitro-2-furylpolyalkenyls and 5-nitro-2-furylpolyalkenes. Report 4. Nitration of β -(furyl)-acrolein and synthesis of certain unsaturated furan aldehydes and ketones. Vestis Latvak no.5:87-97 '61.

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(MIRA 16:1)

LUKEVITS, E.[Lakevics, E.]; GILLER, S.[Hillers, S.] Interaction of triethylsilane with mercury salts, Izv, AN Latv. SSR no.4895-98 '61.

1. Institut organicheskogo sinteza AN Latviyskoy SSR.

(Silane) (Mercury salts)

LIDAK, M.[Lidaks, M.]; GILLER, S.[Hillers, S.]

Some reactions of ethylenimine. I. Reaction of ethylenimine with aliphatic and carbocyclic aldehydes and ketones. Vestis Latv ak no.5: 99-108 '61.

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

LIDAK, M. [Lidaks, M.]; GILLER, S.[Hillers, S.]

Some reactions of ethylenimine. II. Reaction of ethylenimine with benzaldehyde, furfural and their derivatives. Vestis Latv ak no.7: 49-58 '61.

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(Ethylenimine) (Belzaldehyde) (Furaldehyde)

S/197/61/000/007/002/002 B117/B101

AUTHORS:

Lukevits, E., Romadan, Yu., Giller, S.

TITLE:

Syntheses in the series of furan-containing organosilicon

compounds, synthesis of furfuryloxy silanes

PERIODICAL:

Izvestiya Akademii nauk Latveyskoy SSR, no. 7 (168), 1961,

59 - 61

TEXT: The authors employed three methods for producing furfuryloxy silanes. Most of these compounds were prepared by the interaction of alkylchlorosilanes $R_n ^{\text{SiCl}}_{4-n}$ and alkyldichlorosilanes R_{SiHCl}_2 with furfuryl alcohol in the presence of pyridine (method A):

$$R_n \text{SiCl}_{4-n} + (4-n) \underbrace{ C_5^{H_5N}}_{0} R_n \text{Si} \left(\text{OCH}_2 \underbrace{ O \right)}_{4-n} + (4-n) C_5^{H_5N} . \text{ HCl}$$

RSiHCl₂ + 2 O-CH₂OH $\xrightarrow{C_5H_5N}$ RSiH $\left(\text{OCH}_2\right)$ + 2C₅H₅N . HCl

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Syntheses in the series of ...

S/197/61/000/007/002/002 B117/B101

The reactions were made in a three-necked flask with mechanical stirrer, dropping funnel, and reflux cooler with calcium chloride tube. In the case of $C_2H_5\mathrm{SiHCl}_2$ not only ethyl difurfuryloxy silane but also ethyl trifurfuryloxy silane were isolated. This indicates that the reaction partially proceeds via the Si-H bond. Re-esterification of ethoxy silanes with furfuryl alcohol (method 5) is simpler from the experimental point of view.

$$R_{n} \text{Si}(\text{OC}_{2}\text{H}_{5})_{4-n} + (4-n) \bigcirc \text{-CH}_{2}\text{OH} \longrightarrow R_{n} \text{Si}(\text{OCH}_{2} \bigcirc \text{-})_{4-n} + (4-n)\text{C}_{2}\text{H}_{5}\text{OH}$$

In some cases, however, the reaction proceeds slowly and the separation of the main product is rendered difficult by the impurities of the partially substituted esters. The best results could be obtained when using sodium furfurylate as a catalyst. The reactions were made in a distilling flask with dephlegmator in oil bath. For the production of trialkyl furfuryloxy silanes dehydrocondensation of hydride silanes with alcohols in the presence of metallic sodium (Ref. 11: B. N. Dolgov, N. P. Kharitonov, M. G. Voronkov, ZhOKh, 24, 1178, (1954)) was successfully employed (methods).

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S/197/61/000/007/002/002 B117/B101

Syntheses in the series of ...

In this case the highest yields were obtained:

$$(c_{2}^{H_{5}})_{3}^{SiH} + (c_{2}^{H_{5}})_{3}^{SiOCH_{2}} + H_{2}$$

Using these three methods the entire series of methyl furfuryloxy silanes and ethyl furfuryloxy silanes as well as methyl ethyl difurfuryloxy silane, ethyl dipropyl furfuryloxy silane, trifurfuryloxy silane and tetrafurfuryloxy silane were obtained (Table 1). Most of the furfuryloxy silanes are colorless liquids with a characteristic smell and turning yellow on standing. At temperatures of 145°C and higher, the furfuryloxy silanes distilled in the vacuum are yellowish. The furfuryloxy silanes are soluble in ether, ethanol, benzene, and toluene, and insoluble in water. On heating they are gradually polymerized while forming brown non-distillable, highly viscous substances. All frequencies characteristic of the disubstituted furans can be observed in the infrared spectrum (Table 2) There are 2 tables and 17 references: 8 Soviet-bloc and 9 non-Soviet-bloc. The three most important references to English-language publications read as follows: Ref. 15: A, Cross, S. Stevens, T. Watts. J. Appl. Chem., 7,

Card 3/7

S/197/61/000/007/002/002 B117/B101

Syntheses in the series of ...

562 (1957); Ref. 16: N. Wright, M. Hunter. J. Amer. Chem. Soc., <u>69</u>, 803 (1947); Ref. 17: A. Katritzky, I. Lagovski. J. Chem. Soc., 1959, 657.

ASSOCIATION: Institut organicheskogo sinteza AN Latv. SSR (Institute of

Organic Synthesis AS Latviyskaya SSR)

SUBMITTED: May 6, 1961

Table 1: constants of furfuryloxy silanes.

Legend: 1) furfuryloxy silane; 2) synthesis method; 3) boiling temperature, oc; 4) pressure, mm Hg; 5) found; 6) calculated; 7) yield %.

Table 2: infrared absorption spectra of furfuryloxy silanes.

Legend: 1) compound; 2) valence vibrations of the furan ring; 3) pulsation of the ring; 4) deformation vibrations of the C-H bond; 5) planar; 6) extraplanar; 7) references; 8) vibrations of the Si-x bond; 9) deformation vibrations; 10) other frequencies.

Card 4/7

SLAVINSKAYA, B.A.; SHIMANSKAYA, M.V.; GILLER, S.A.; IOFFE, T.I.

Kinetics of the vapor-phase contract oxidation of furfurole.

Kin. i kat. 2 no.2:252-257 Mr-Ap '61. (MIRA 14:6)

1. Institut organicheskogo sinteza AN Latviyskoy SSR, Riga i Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni K. Ye. Voroshilova.

(Furaldehyde) (Oxidation)

ZAYEVA, S.P.; GILLER, S.A.; GERMANE, S.K.; STRADYN', [Stradin, J.P.]; ALEKSEYEVA, L.N.; KRUZMETRA, L.V.; AL'BERTE, M.A.; AYZPURIETE, I.F. [Aizpuriete, I.F.]; KALMBERG, R.Yu. [Kalmberg, R.J.]

Experimental study of furazolin (F-150), a new preparation of the nitrofuran series. Zhur.mikrobiol., epid. i immun. 32 no.10: 17-20 0 '61. (MIRA 14:10)

1. Iz Instituta organicheskogo sinteza AN Latviyskoy SSR. (FURAN)

Wiltration of season, unsaturated aldehydes and ketones of the furan series. Dokt. All SSS: 137 to. 1:83-86 Mr-Ap '61.

(MRA 14:2)

1. Institut organicheskogo sinteza AN Latviyskoy SSR. 2. All Latviyskoy SSR (for Giller).

(Aldehydes) (Retones) (Eitration)

VENTER, K.K.; GILLER, S.A., akademik; KUCHEROV, V.F.; TSIRULE, V.V.

[Cirule, V.]; KARKLINYA, A.M. [Karklina, A.]]

Syntheses in the domain of 5-mitrofuryl-2-polyalkenals and 5-mitrofuryl-2-polyalkenones. Reaction of carbethoxymethylene-triphenylphosphorane with M-unsaturated and polyene aldehydes of the 5-mitrofuran series. Dokl. AN SSSR 140 no.5:1073-1075 0 '61.

(MIRA 15:2)

1. Institut organichesekogo sinteza AN Latviyskoy SSR.

2. AN Latviyskoy SSR (for Giller).

(Fhosphorane)

(Furan)

(Alcemydos):

EYDUS, Ya.A. [Eiduss, J.]; VENTER, K.K.; GILLER, S.A., akademik

Effect of terminal substituents in 5-nitrofurylpolyene derivatives on their electron spectra. Dokl. AN SSSR 141 no.3:655-658 N '61.

(MIRA 14:11)

1. Institut organicheskogo sinteza AN Latviyekoy

SSR i latviyakiy gosudarstvennyy universitet im. P. Stuchki.

2. AN Latviyskoy SSR (for Giller).

(Olefins—Spectra)

STRADYEV, YA.P. AND GILLER, S.A.

"Die polarographische untersuchung einiger chemotherapeutika der nitrofuranreihe."

Report submitted to the Oscillopolarography Course and Polarography Symp. Jena, GDR 10-15 Sep 1962

GILLER, S.A., otv. red.; BLYUGER, A.F., red.; SHIMANSKAYA, M.V., red.;
DYMARSKAYA, O., red.; LEMBERGA, A., tekhm. red.

[Furazolidone]Furazolidon. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1962. 145 p. (MIRA 15:12)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu Akademija. Organiskas sintezes institut. 2. Direktor Instituta organicheskogo sinteza Akademii nauk Latvijskoj SSR (for Giller). 3. Institut organicheskogo sinteza Akademii nauk Latvijskoj SSR (for Shimanskaya). 4. Kafedra infektsionnykh bolezneý Rizhskogo meditsinskogo instituta (for Blyuger).

(QXAZOLIDINONE)

SLAVINSKAYA, V.A.; GULEVSKIY, E.K.; SHIMANSKAYA, M.V.; GILLER, S.A.; IOFFE, I.I.

Kinetics of furfurole catalytic oxidation. Kin.i kat. 3 no.2:276-281 Mr-Ap '62. (MIRA 15:11)

1. Institut organicheskogo sinteza AN Latviyskoy SSR, Riga i Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni K.Ye.Voroshilova, Moskva. (Furaldehyde) (Maleic anhydride) (Catalysts)

s/020/62/145/004/017/024

AUTHORS:

Lukevits, E. Ya., Romadan, Yu. P., Giller, S. A., Academician

AS LatSSR, and Voronkov, M. G.

TITLE:

Organosilicon compounds of the furan series. Organosilicon

derivatives of furyl carbinols and 5-substituted furfuryl

alcohols

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 4, 1962, 806 - 808

TEXT: Furfuryl oxysilanes were produced: (1) by reaction of trialkyl chlorosilanes with furyl alkyl and furyl aryl carbinols, (2) by reaction of silanes with furfuryl alcohol, 5-methyl furfuryl alcohol, and furyl alkyl carbinols

rae R = CHa; H R' = CHa; C1Ha; C4Hr; H
e"= CHa; C4Ha; C4Ha; C1Ha) SIOH R""= C1Ha; C3Hr; C1HaO

using 10⁻⁵ moles of H₂PtCl₆ per 1 mole of isopropyl alcohol as catalyst at

Card 1/8 2